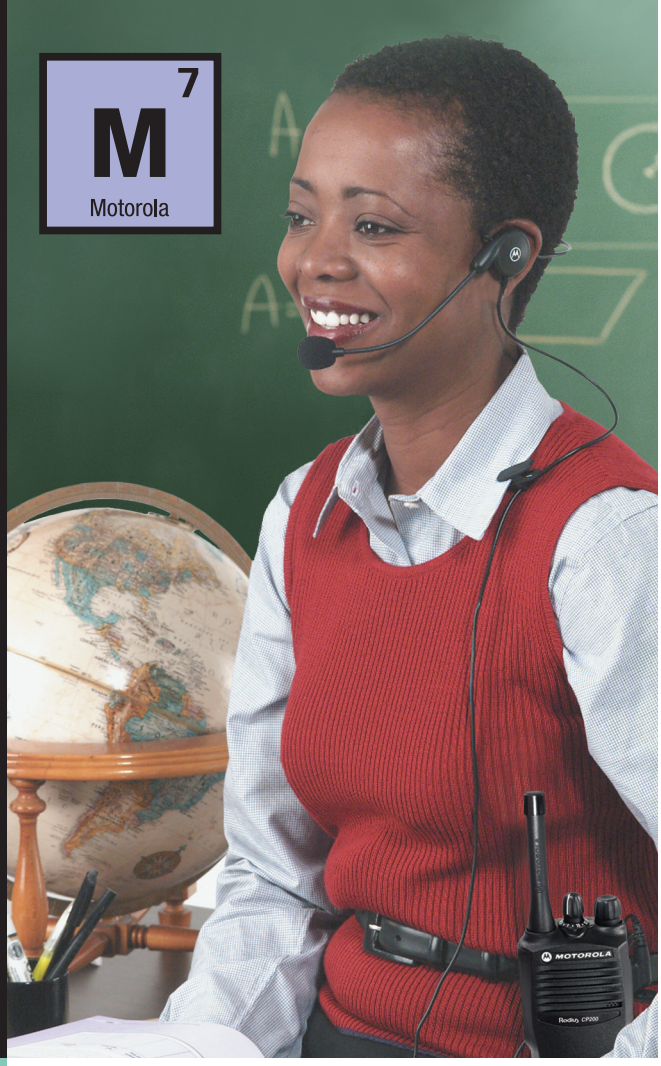
CP150 & CP200 PORTABLES




MOTOROLA
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# CP150/CP200

## Portable Series Two-Way Radios

2-Year Standard Warranty

### *CP150/CP200 Features*

- *4/16 Conventional Channels*
- *Large Rotary Channel Selector*
  *Changes channels quickly and easily*
- *Rotary On/Off and Volume Control*
- *Tricolor LED*
  *Indicates radio status and battery levels*
- *Accessory Connector*
  *Convenient access for audio accessories*
- *3 Inch Spring Action Belt Clip*
  *Attaches radio firmly to belt*
- *Rugged, Die-Cast Chassis*
  *With polycarbonate housing for greater protection*
- *Large, Textured Push-to-Talk Button*
  *Easy to find and use, even when wearing gloves*
- *Two Programmable Option Buttons*
  *Supports your choice of up to four product features*
- *Privacy Codes (42 standard TPL codes, 84 standard DPL codes and non-standard codes)*
- *System Scan and Auto Scan*
- *Single Priority Scan*
  *(frequently scans higher priority channel)*
- *Battery Latch Lock  Secures battery*

## *CP200 - Additional Features*

### *Programmable*

*In addition to the above features, the CP200 portable radio offers the following signaling features:*

- **Selective Call/Call Alert**
  *Using Motorola's Quick-Call II™ signaling, lets individuals or groups receive selective pages via radio tones.*
- **Push-To-Talk ID**
  *Using Motorola's MDC data signaling sends unique ID information when transmitting.*

***For more information, contact:***

SPECIFICATIONS

# CP150™/CP200™ Portable Two-Way Radio Specifications*

## General Specifications

| | VHF | UHF |
|---|---|---|
| Frequency: | 136-162 MHz<br>146-174 MHz | 438-470 MHz,<br>CP200 Only: 403-440 MHz, 465-495 MHz |
| Channel Capacity: | 4 or 16 Channels | 4 or 16 Channels |
| Power Supply: | 7.2 Volts ± 20% | 7.2 Volts ± 20% |
| Dimensions: | | |
| with 1100 mAh NiCd and 1800 mAh Li-ion Batteries: | 127.5mm H x 61.5mm W x 45mm D<br>(5.0" H x 2.4" W x 1.75" D) | 127.5mm H x 61.5mm W x 45mm D<br>(5.0" H x 2.4" W x 1.75" D) |
| with 1400 mAh NiMH Battery: | 127.5mm H x 61.55mm W x 43mm D<br>(5.0" H x 2.4" W x 1.69" D) | 127.5mm H x 61.55mm W x 43mm D<br>(5.0" H x 2.4" W x 1.69" D) |
| with 1600 mAh Slim Li-ion Battery: | 127.5mm H x 61.55mm W x 42mm D<br>(5.0" H x 2.4" W x 1.65" D) | 127.5mm H x 61.55mm W x 42mm D<br>(5.0" H x 2.4" W x 1.65" D) |
| Weight: | | |
| with 1800 mAh Li-ion Battery: | 370g (13.04 oz.) | 370g (13.04 oz.) |
| with 1600 mAh Slim Li-ion Battery: | 374g (13.19 oz.) | 374g (13.19 oz.) |
| with 1400 mAh NiMH Battery: | 444g (15.66 oz.) | 444g (15.66 oz.) |
| with 1100 mAh NiCd Battery: | 425g (14.98 oz.) | 425g (14.98 oz.) |
| Average Battery Life @ 5-5-90 Duty Cycle: | 2W / 5W | 2W / 4W |
| 1800 mAh Li-ion: | 17 Hrs. / 14 Hrs. | 17 Hrs. / 14 Hrs. |
| 1600 mAh Slim Li-ion: | 14 Hrs. / 12 Hrs. | 14 Hrs. / 12 Hrs. |
| 1400 mAh NiMH: | 11 Hrs. / 10 Hrs. | 11 Hrs. / 10 Hrs. |
| 1100 mAh NiCd: | 9 Hrs. / 8 Hrs. | 9 Hrs. / 8 Hrs. |
| FCC Designation: | ABZ99FT3045 | ABZ99FT4056, ABZ99FT4057, ABZ99FT4058 |

## Receiver Specifications

| | VHF 12.5 kHz | VHF 20/25/30 kHz | UHF 12.5 kHz | UHF 20/25/30 kHz |
|---|---|---|---|---|
| Sensitivity: (12 dB EIA SINAD) | 0.25 uV (typical) | 0.25 uV (typical) | 0.25 uV (typical) | 0.25 uV (typical) |
| Adjacent Channel Selectivity: | -65 dB | -70 dB | -60 dB | -70 dB |
| Intermodulation: | -70 dB | -70 dB | -70 dB | -70 dB |
| Frequency Stability: (-30° C to +60° C) | 0.00025% | 0.00025% | 0.00025% | 0.00025% |
| Spur Rejection: | -75 dB | -75 dB | -75 dB | -75 dB |
| Image and 1/2 I-F Rejection: | -70 dB | -70 dB | -70 dB | -70 dB |
| Audio Output @ < 5% Distortion: | 500mW | 500mW | 500mW | 500mW |

## Transmitter Specifications

| | VHF | VHF | UHF | UHF |
|---|---|---|---|---|
| RF Output: | Low<br>2W | High<br>5W | Low<br>2W | High<br>4W |
| Channel Spacing: | 12.5/20/25 kHz | 12.5/20/25 kHz | 12.5/20/25 kHz | 12.5/20/25 kHz |
| Frequency Stability: (-30° C to +60° C) | 0.00025% | 0.00025% | 0.00025% | 0.00025% |
| Spurs/Harmonics: | -36 dBm < 1 GHz<br>-30 dBm > 1 GHz | -36 dBm < 1 GHz<br>-30 dBm > 1 GHz | -36 dBm > 1 GHz<br>-30 dBm > 1 GHz | -36 dBm > 1 GHz<br>-30 dBm > 1 GHz |
| Audio Response:<br>(from 6 dB/oct. Premphasis, 300 to 3000 Hz) | +1, -3 dB | +1, -3 dB | +1, -3 dB | +1, -3 dB |
| Audio Distortion:<br>@ 1000 Hz, 60% Rated Max. Dev. | <3% | <3% | <3% | <3% |
| FM Noise: | -40 dB (12.5 kHz)<br>-45 dB (25 kHz) | -40 dB (12.5 kHz)<br>-45 dB (25 kHz) | -40 dB (12.5 kHz)<br>-45 dB (25 kHz) | -40 dB (12.5 kHz)<br>-45 dB (25 kHz) |
| FCC Modulation: 20/25/30 kHz<br>12.5 kHz | 16KOF3E<br>11KOF3E | 16KOF3E<br>11KOF3E | 16KOF3E<br>11KOF3E | 16KOF3E<br>11KOF3E |

## CP150/CP200 Portable Military Standards

| | 810C Methods | 810C Procedures | 810D Methods | 810D Procedures | 810E Methods | 810E Procedures | 810F Methods | 810F Procedures |
|---|---|---|---|---|---|---|---|---|
| Low Pressure: | 500.1 | I | 500.2 | 2 | 500.3 | 2 | 500.4 | 1 |
| High Temperature: | 501.1 | I, 2 | 501.2 | I, 2 | 501.3 | I, 2 | 501.4 | 1, 2 |
| Low Temperature: | 502.1 | I | 502.2 | I, 2 | 502.3 | I, 2 | 501.4 | 1, 2 |
| Temperature Shock: | 503.1 | I | 503.2 | I | 503.3 | I | 503.4 | 1 |
| Solar Radiation | 505.1 | I | 505.2 | I | 505.3 | I | 505.4 | 1 |
| Rain: | 506.1 | 1, 2 | 506.2 | 1, 2 | 506.3 | I, 2 | 506.4 | 1 |
| Humidity | 507.1 | 2 | 507.2 | 2, 3 | 507.3 | 2, 3 | 507.4 | 3 |
| Salt Fog: | 509.1 | 1 | 509.2 | 1 | 509.3 | 1 | 509.4 | 1 |
| Dust: | 510.1 | 1 | 510.2 | 1 | 510.3 | 1 | 510.4 | 1 |
| Vibration: | 514.2 | 8, 10 | 514.3 | 1 | 514.4 | 1 | 514.5 | 1 |
| Shock: | 516.2 | 1, 2, 5 | 516.3 | 1, 4 | 516.4 | 1, 4 | 516.5 | 1 |

## Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

*All specifications subject to change without notice.

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